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NOTICE OF ALLOWANCE AND FEE(S) DUE

52082

7590

12/02/2008

General Electric Company **GE Global Patent Operation** PO Box 861 2 Corporate Drive, Suite 648 Shelton, CT 06484

EXAMINER ARTMAN, THOMAS R ART UNIT PAPER NUMBER

2882 DATE MAILED: 12/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/599,420	11/06/2006	Geoffrey Harding	11NS201653	8581	

TITLE OF INVENTION: ANODE MODULE FOR A LIQUID METAL ANODE X-RAY SOURCE, AND X-RAY EMITTER COMPRISING AN ANODE

MODULE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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2 Corporate Driv Shelton, CT 064									
Shellon, C1 004	10-1								(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	COI	NFIRMATION NO.
10/599,420	11/06/2006		Geoffrey Harding	5			11NS201653		8581
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nonprovisional	NO	\$1510	\$300	\$0			\$1810		03/02/2009
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ARTMAN,	THOMAS R	2882	378-138000						
☐ "Fee Address" ind	oondence address (or Cha B/122) attached. lication (or "Fee Address)2 or more recent) attach	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comj GNEE	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C)	ne pa g an a	attent. If an assignassignment.	OUNT	TRY)		
Please check the appropr	riate assignee category or	categories (will not be pa	rinted on the patent):	<u> </u>	Individual 🖵 Co	rporati	on or other private gro	oup en	tity Government
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5. Change in Entity Sta	itus (from status indicate as SMALL ENTITY state		□ 1. A1:	1	CMAAT	T DATE	ΓΙΤΥ status. See 37 Cl	ED 1.0	7(-)(2)
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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52082	7590	12/02/2008		EXAM	INER	
General Elec	tric Com	npany	ARTMAN, THOMAS R			
GE Global Pa				ART UNIT	PAPER NUMBER	
PO Box 861 2 Corporate Drive, Suite 648				2882 DATE MAILED: 12/02/2008		
Shelton, CT 0	6484			DATE MAILED. 12/02/200	O	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/599,420	HARDING, GEOFFREY
Notice of Allowability	Examiner	Art Unit
	THOMAS R. ARTMAN	2882
The MAILING DATE of this communication appea. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Amendment filed Aug	(OR REMAINS) CLOSED in a or other appropriate commur IGHTS. This application is sugand MPEP 1308.	this application. If not included included included included included in due course. THIS
2. ☑ The allowed claim(s) is/are <u>1-13,16 and 17</u> .	, ,	
3. ☑ Acknowledgment is made of a claim for foreign priority ur a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☑ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been received of this communication to file a	No in this national stage application from the
 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's 	es reason(s) why the oath or out the submitted. con's Patent Drawing Review	declaration is deficient. (PTO-948) attached
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the factor of the sheet of the s	he header according to 37 CFR sit of BIOLOGICAL MATE	1.121(d). RIAL must be submitted. Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/15/2008 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sur Paper No./M 7. ☑ Examiner's A	ormal Patent Application mmary (PTO-413), fail Date mendment/Comment statement of Reasons for Allowance

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jonathan Thomas, Reg. No. 50,352, on November 19th, 2008.

The application has been amended as follows:

IN THE CLAIMS:

17. (Currently Amended) An anode module for a liquid metal anode x-ray source, the anode module comprising:

an electron entry window formed on the anode module in a region of focus, and
an x-ray beam exit window on a portion of the anode module opposite the
electron entry window,

wherein the electron entry window is convexly curved perpendicular to a direction of flow of the liquid metal, and

wherein an exit angle (Θ) between an electron beam that enters the electron entry window along a direction of incidence and an x-ray beam that exits the x-ray beam exit window is between 5° and 50° .

18. (Cancelled)

Allowable Subject Matter

Claims 1-13, 16 and 17 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record neither teaches nor reasonably suggests an anode module for a liquid anode x-ray source with an electron entry window on the anode module in a region of focus and an x-ray beam exit window on a portion of the anode module opposite the electron entry window, where the exit angle between the electron beam that enters the electron entry window along a direction of incidence and the x-ray beam that exits the x-ray beam exit window is between 5° and 50°, as required by the combination as claimed in each of claims 1 and 17.

Claims 2-13 and 16 are allowed by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS R. ARTMAN whose telephone number is (571)272-2485. The examiner can normally be reached on 9am - 5:30pm Monday - Friday.

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Art Unit: 2882

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TRA/ Examiner, Art Unit 2882 Thomas R Artman Examiner Art Unit 2882

/Edward J Glick/ Supervisory Patent Examiner, Art Unit 2882